

### SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- Henrik Stender (i) APPLICANT:

Kaare Lund

Tina Anderson Hollerup

- (ii) TITLE OF INVENTION: Novel Process For The Detection of Mycobacteria
  - (iii) NUMBER OF SEQUENCES: 123
  - (iv) CORRESPONDENCE ADDRESS:

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& DUNNER

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Washington (C) CITY: District of Columbia (D) STATE:

(E) COUNTRY: USA

20005 (F) ZIP:

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk 3.5 inch

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: ASCxi

(D) SOFTWARE: Microsoft Word

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 10/347,510

(B) FILING DATE: 1/21/2003

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/028,392

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(A) APPLICATION NUMBER: 60/029,595

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(A) APPLICATION NUMBER: 60/045,962

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(B) FILING DATE: 10/3/97

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- (2) INFORMATION FOR SEQ ID NO: 1:
  - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 basepairs

(B) TYPE: nucleic acid basepairs

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AGATCGGGGT AGCAC 15

- (2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs
  - (B) TYPE: nucleic acid basepairs
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

# TGTTTTCTCC TCCTA 15

- (2) INFORMATION FOR SEQ ID NO: 3:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

#### ACTGCCTCTC AGCCG 15

- (2) INFORMATION FOR SEQ ID NO: 4:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

## TGATACTAGG CAGGT 15

- (2) INFORMATION FOR SEQ ID NO: 5:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
      - (B) TYPE: nucleic acid basepairs
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

# CGGATTCACA GCGGA 15

- (2) INFORMATION FOR SEQ ID NO: 6:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

# TCACCACCCT CCTCC 15

- (2) INFORMATION FOR SEQ ID NO: 7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

# TTAACCTTGC GACAT 15

- (2) INFORMATION FOR SEQ ID NO: 8:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

# ACTATTCACA CGCGC 15

- (2) INFORMATION FOR SEQ ID NO: 9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: CTCCGCGGTG AACCA 15
- (2) INFORMATION FOR SEQ ID NO: 10:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10 GCTTTACACC ACGGC 15
- (2) INFORMATION FOR SEQ ID NO: 11:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11: ACGCTTGGGG GCCTT 15
- (2) INFORMATION FOR SEQ ID NO: 12:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: CCACACCCAC CACAA 15 (2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: CCGGTGGCTT CGCTG 15 (2) INFORMATION FOR SEQ ID NO: 14:
  - - (i) SEQUENCE CHARACTERISTICS:
      - (A) LENGTH: 15 basepairs
      - (B) TYPE: nucleic acid basepairs
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14: ACTTGCCTTG TCGCT 15
  - (2) INFORMATION FOR SEQ ID NO: 15:
    - (i) SEQUENCE CHARACTERISTICS:
      - (A) LENGTH: 15 basepairs
      - (B) TYPE: nucleic acid basepairs
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15: GATTCGTCAC GGGCG 15
  - (2) INFORMATION FOR SEQ ID NO: 16:
    - (i) SEQUENCE CHARACTERISTICS:
      - (A) LENGTH: 15 basepairs
      - (B) TYPE: nucleic acid basepairs
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16: AACTCCACAC CCCCG 15
  - (2) INFORMATION FOR SEQ ID NO: 17:
    - (i) SEQUENCE CHARACTERISTICS:
      - (A) LENGTH: 15 basepairs
      - (B) TYPE: nucleic acid basepairs
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

#### ACTCCACACC CCCGA 15

- (2) INFORMATION FOR SEQ ID NO: 18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

### ACCCCTTCGC TTGAC 15

- (2) INFORMATION FOR SEQ ID NO: 19:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

### CTTGCCCCAG TGTTA 15

- (2) INFORMATION FOR SEQ ID NO: 20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

### CTCTCCCTAC CGGCT 15

- (2) INFORMATION FOR SEQ ID NO: 21:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

#### GATATTCCGG TCCCC 15

- (2) INFORMATION FOR SEQ ID NO: 22:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

### ACTCCGCCCC AACTG 15

- (2) INFORMATION FOR SEQ ID NO: 23:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

### CTGTCCCTAA ACCCG 15

- (2) INFORMATION FOR SEQ ID NO: 24:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

#### TTCGAGGTTA GATGC 15

- (2) INFORMATION FOR SEQ ID NO: 25:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25: GTCCCTAAAC CCGAT 15
- (2) INFORMATION FOR SEQ ID NO: 26:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

# GGTGCACCAG AGGTT 15

- (2) INFORMATION FOR SEQ ID NO: 27:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

#### CTGGCGGGAC AACTG 15

- (2) INFORMATION FOR SEQ ID NO: 28:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

#### TTATCCTGAC CGAAC 15

- (2) INFORMATION FOR SEQ ID NO: 29:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

#### - GACCTATTGA ACCCG 15

- (2) INFORMATION FOR SEQ ID NO: 30:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

#### GAAGAGACCT TTCCG 15

- (2) INFORMATION FOR SEQ ID NO: 31:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

#### CACTCGAGTA TCTCC 15

- (2) INFORMATION FOR SEQ ID NO: 32:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

#### ATCACCCACG TGTTA 15

- (2) INFORMATION FOR SEQ ID NO: 33:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
  GCATCCCGTG GTCCT 15
- (2) INFORMATION FOR SEQ ID NO: 34:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34: CACAAGACAT GCATC 15
- (2) INFORMATION FOR SEQ ID NO: 35:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:
- (2) INFORMATION FOR SEQ ID NO: 36:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36: GCTCATCCCA CACCG 15
- (2) INFORMATION FOR SEQ ID NO: 37:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37: CCGAGAGAAC CCGGA 15

- (2) INFORMATION FOR SEQ ID NO: 38:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

### AGTCCCCACC ATTAC 15

- (2) INFORMATION FOR SEQ ID NO: 39:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

#### AACCTCGCGG CATCG 15

- (2) INFORMATION FOR SEQ ID NO: 40:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

#### GGC TTTTAAG GATTC 15

- (2) INFORMATION FOR SEQ ID NO: 41:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

#### GACCCCGATC CGAAC 15

- (2) INFORMATION FOR SEQ ID NO: 42:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

CCGACTTCAC GGGGT 15

- (2) INFORMATION FOR SEQ ID NO: 43:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

#### CGGAGGGCA GTATC 15

- (2) INFORMATION FOR SEQ ID NO: 44:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44: GATCAATGCT CGGTT 15
- (2) INFORMATION FOR SEQ ID NO: 45:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

### TTCCCCGCGT TACCT 15

- (2) INFORMATION FOR SEQ ID NO: 46:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

# TTAGCCTGTT CCGGT 15

- (2) INFORMATION FOR SEQ ID NO: 47:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

GCATGCGGTT TAGCC 15

- (2) INFORMATION FOR SEQ ID NO: 48:
  - (i) SEOUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

### TACCCGGTTG TCCAT 15

- (2) INFORMATION FOR SEQ ID NO: 49:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

### GTAGAGCTGA GACAT 15

- (2) INFORMATION FOR SEO ID NO: 50:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

### GCCGTCCCAG GCCAC 15

- (2) INFORMATION FOR SEQ ID NO: 51:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

### CTCGGGTGTT GATAT 15

- (2) INFORMATION FOR SEQ ID NO: 52:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

### ACTATTTCAC TCCCT 15

- (2) INFORMATION FOR SEQ ID NO: 53:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

#### ACGCCATCAC CCCAC 15

- (2) INFORMATION FOR SEO ID NO: 54:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

#### CGACGTGTCC CTGAC 15

- (2) INFORMATION FOR SEQ ID NO: 55:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

# ACTACACCCC AAAGG 15

- (2) INFORMATION FOR SEO ID NO: 56:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

### CACGCTTTTA CACCA 15

- (2) INFORMATION FOR SEQ ID NO: 57:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

### GCGACTACAC ATCCT 15

- (2) INFORMATION FOR SEQ ID NO: 58:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: CGGCGCATAA TCACT 15
- (2) INFORMATION FOR SEQ ID NO: 59:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: CCACATCCAC CGTAA 15
- (2) INFORMATION FOR SEQ ID NO: 60:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60: CGCTGAATGG GGGAC 15
- (2) INFORMATION FOR SEQ ID NO: 61:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61: GGAGCTTCGC TGAAT 15
- (2) INFORMATION FOR SEQ ID NO: 62:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

CGGTCACCCG GAGCT 15

- (2) INFORMATION FOR SEQ ID NO: 63:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:
- GGACGCCCAT ACACG 15
- (2) INFORMATION FOR SEQ ID NO: 64:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:
- GAAGGGGAAT GGTCG 15
- (2) INFORMATION FOR SEQ ID NO: 65:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:
- AATCGCCACG CCCCC 15
- (2) INFORMATION FOR SEQ ID NO: 66:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
- CAGCGAAGGT CCCAC 15
- (2) INFORMATION FOR SEQ ID NO: 67:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

GTCACCCCAT TGCTT 15

- (2) INFORMATION FOR SEQ ID NO: 68:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

#### ATCGCTCTCT ACGGG 15

- (2) INFORMATION FOR SEQ ID NO: 69:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

#### GTGTATGTGC TCGCT 15

- (2) INFORMATION FOR SEQ ID NO: 70:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

### ACGGTATTCC GGGCC 15

- (2) INFORMATION FOR SEQ ID NO: 71:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

#### GGCCGAATCC CGCTC 15

- (2) INFORMATION FOR SEQ ID NO: 72:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

AAACAGTCGC TACCC 15

- (2) INFORMATION FOR SEQ ID NO: 73:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

#### CCTTACGGGT TAACG 15

- (2) INFORMATION FOR SEQ ID NO: 74:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:
  GAGACAGTTG GGAAG 15
- (2) INFORMATION FOR SEQ ID NO: 75:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75: TGGCGTCTGT GCTTC 15
- (2) INFORMATION FOR SEQ ID NO: 76:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:
- (2) INFORMATION FOR SEQ ID NO: 77:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:
  GATAAGGGTT CGACG 15

- (2) INFORMATION FOR SEQ ID NO: 78:
  - (i) SEOUENCE CHARACTERISTICS:

    - (A) LENGTH: 15 basepairs
      (B) TYPE: nucleic acid basepairs
      (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

### ATCCGTTGAG TGACA 15

- (2) INFORMATION FOR SEQ ID NO: 79
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

#### CAGCCCGTTA TCCCC 15

- (2) INFORMATION FOR SEQ ID NO: 80:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

#### AACCTTTGGG ACCTG 15

- (2) INFORMATION FOR SEQ ID NO: 81:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

## TAAAAGGGTG AGAAA 15

- (2) INFORMATION FOR SEQ ID NO: 82:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

### GTCTGGCCTA TCAAT 15

- (2) INFORMATION FOR SEQ ID NO: 83:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

#### AGATTGCCCA CGTGT 15

- (2) INFORMATION FOR SEQ ID NO: 84
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (xi) SEOUENCE DESCRIPTION: SEO ID NO:84:

### AATCCGAGAA AACCC 15

- (2) INFORMATION FOR SEQ ID NO: 85:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

# GCATTACCCG CTGGC 15

- (2) INFORMATION FOR SEQ ID NO: 86:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

### TTAAAAGGAT TCGCT 15

- (2) INFORMATION FOR SEQ ID NO: 87:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

## AGACCCCAAT CCGAA 15

(2) INFORMATION FOR SEQ ID NO: 88:

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88: GACTCCGACT TCATG 15 (2) INFORMATION FOR SEQ ID NO: 89:
- - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89: GTCTTTTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 90:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90: GTCTTATCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 91:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91: GTCTTCTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 92:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: GTCTTGTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 93:

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93: GTCTATTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 94:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs(C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94: GTCTCTTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 95:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95: GTCTGTTCGT CCTGC 15
- (2) INFORMATION FOR SEQ ID NO: 96:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96: TTGGCCGGTG CTTCT 15
- (2) INFORMATION FOR SEQ ID NO: 97:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97: TTGGCCGGTA CTTCT 15
- (2) INFORMATION FOR SEQ ID NO: 98:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98: TTGGCCGGTC CTTCT 15 (2) INFORMATION FOR SEQ ID NO: 99: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99: TTGGCCGGTT CTTCT 15 (2) INFORMATION FOR SEQ ID NO: 100: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100: ACCGCGGCTG CTGGC 15 (2) INFORMATION FOR SEQ ID NO: 101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: ACCGCGGCTA CTGGC 15 (2) INFORMATION FOR SEQ ID NO: 102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 basepairs (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: ACCGCGGCTC CTGGC 15 (2) INFORMATION FOR SEQ ID NO: 103: (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 basepairs
- (B) TYPE: nucleic acid basepairs
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

### ACCGCGGCTT CTGGC 15

- (2) INFORMATION FOR SEQ ID NO: 104:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104: CGGCAGCTGG CACGT 15
- (2) INFORMATION FOR SEQ ID NO: 105:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

# CGGCCGCTGG CACGT 15

- (2) INFORMATION FOR SEQ ID NO: 106:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106: CGGCTGCTGG CACGT 15
- (2) INFORMATION FOR SEQ ID NO: 107:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

#### CGTATTACCG CAGCT 15

- (2) INFORMATION FOR SEQ ID NO: 108:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs

- (B) TYPE: nucleic acid basepairs (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108: CGTATTACCG CCGCT 15 (2) INFORMATION FOR SEQ ID NO: 109:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs

    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109: CGTATTACCG CTGCT 15
- (2) INFORMATION FOR SEQ ID NO: 110:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110: TTCCTTTGAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 111
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111: TTCCTTTAAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 112:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112: TTCCTTTCAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 113:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs

- (B) TYPE: nucleic acid basepairs
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

  TTCCTTTTAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 114:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114: TTCCTTAGAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 115:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115: TTCCTTCGAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 116:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116: TTCCTTGGAG TTTTA 15
- (2) INFORMATION FOR SEQ ID NO: 117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117: CATGTGTCCT GTGGT 15
- (2) INFORMATION FOR SEQ ID NO: 118:
  - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 15 basepairs

- (B) TYPE: nucleic acid basepairs
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:
  CGTCAGCCCG AGAAA 15
- (2) INFORMATION FOR SEQ ID NO: 119:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (2) INFORMATION FOR SEQ ID NO: 120:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:  $\begin{tabular}{ll} TGGCGTTGAG \end{tabular} GTTTC \end{tabular} \begin{tabular}{ll} TGGCGTTGAG \end{tabular} \begin{tabular}{ll} TGGCGTTGAG \end{tabular} GTTTC \end{tabular} \begin{tabular}{ll} TGGCGTTGAG \end{tabular} GTTTC \end{tabular} \begin{tabular}{ll} TGGCGTTGAG \end{$
- (2) INFORMATION FOR SEQ ID NO: 121:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121: GTCCGTGAAC CCGAT 15
- (2) INFORMATION FOR SEQ ID NO: 122:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

TACGCTCTTT GAGCT 15

- (2) INFORMATION FOR SEQ ID NO: 123:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 15 basepairs
    - (B) TYPE: nucleic acid basepairs

- (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

AACACTCCCT TTGGA 15